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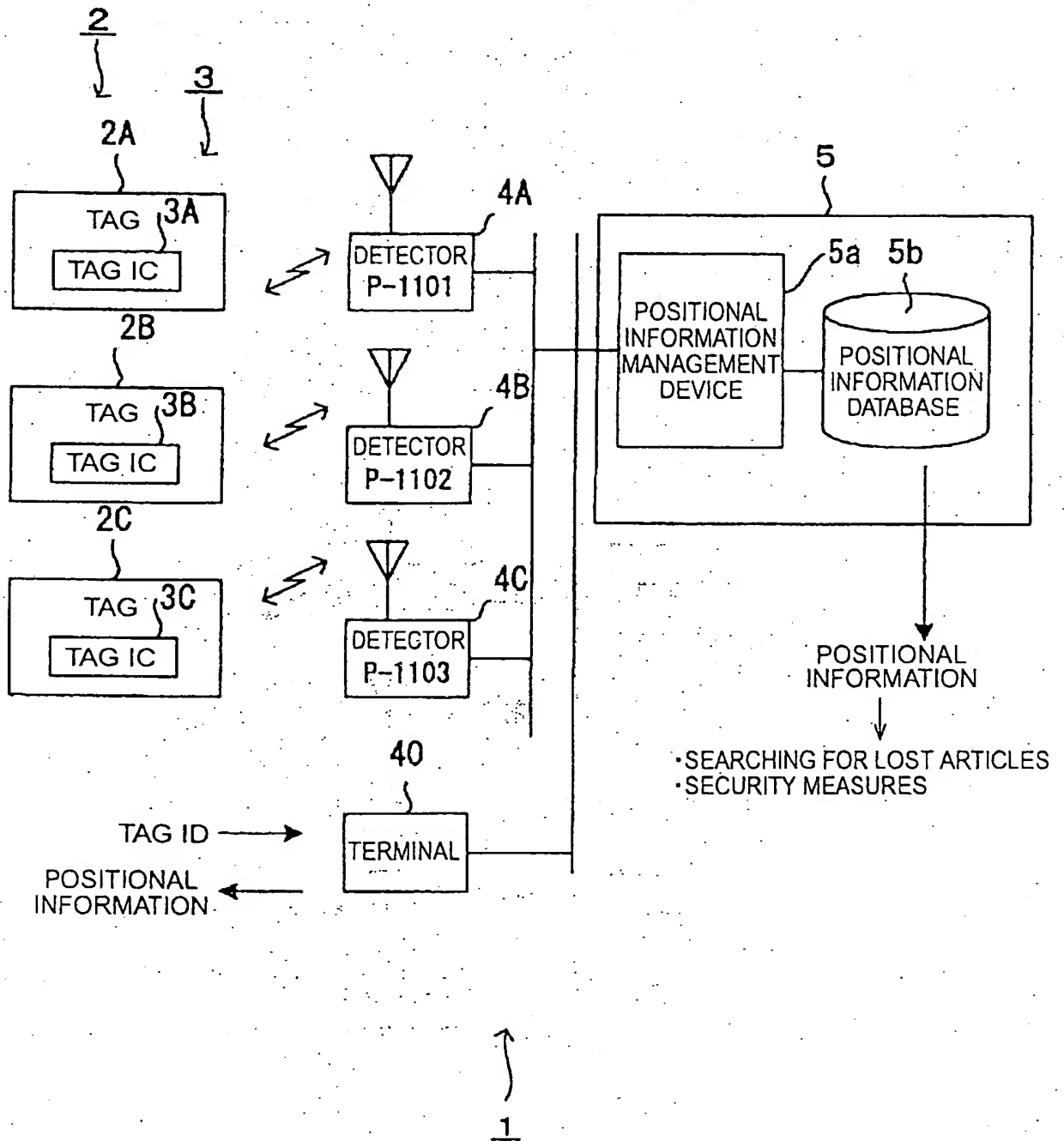
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**Fig.1**



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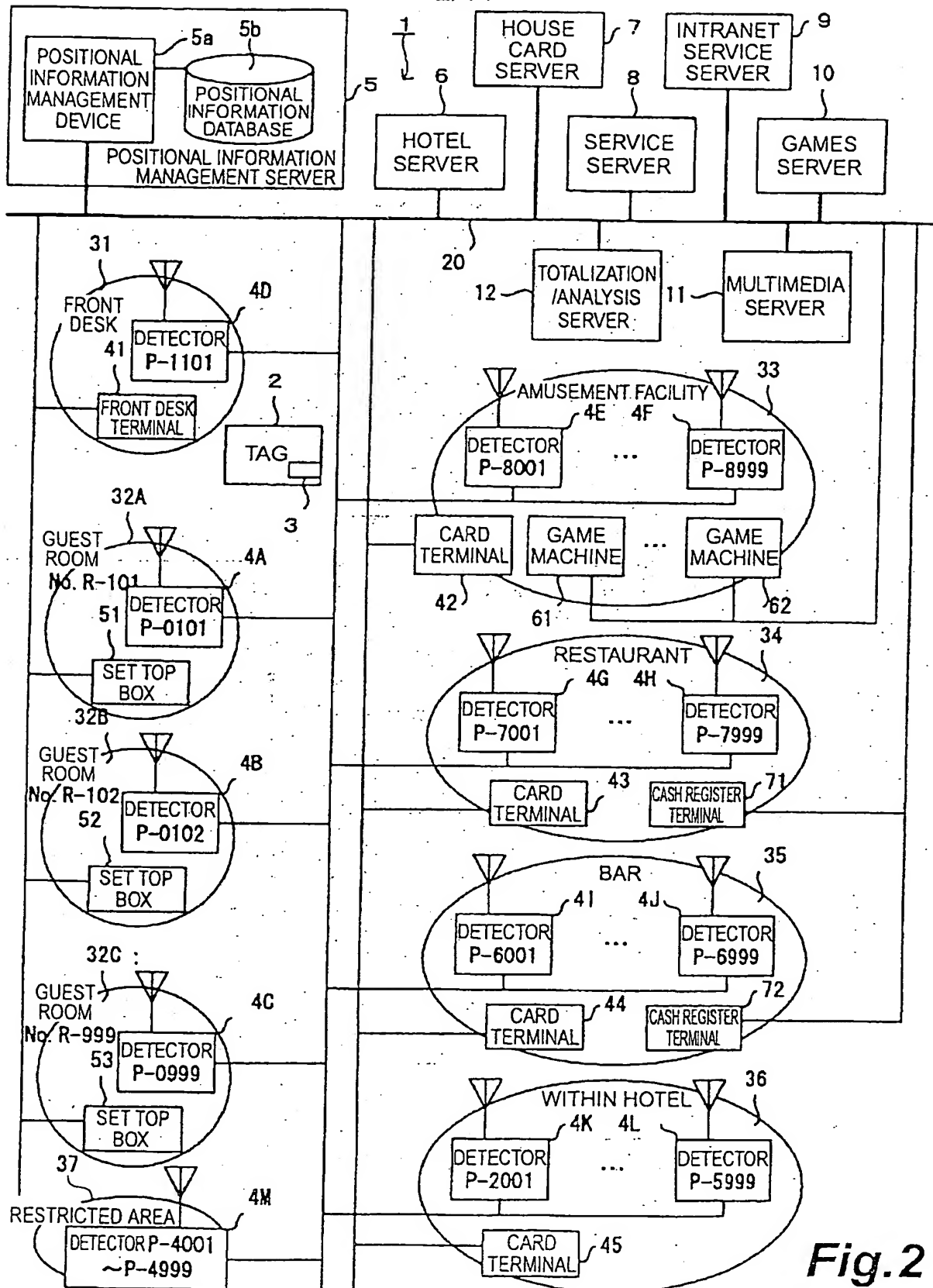


Fig.2

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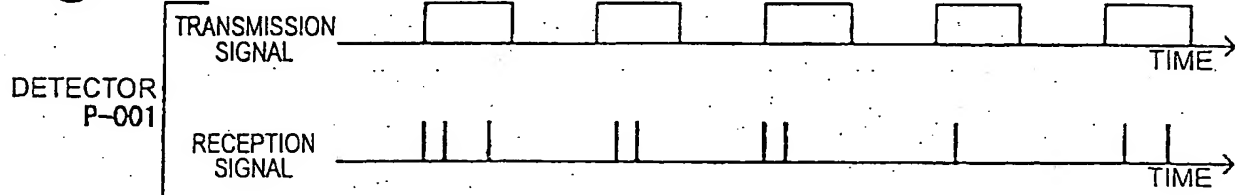
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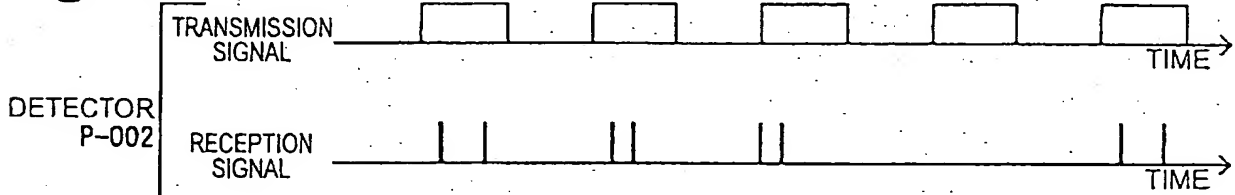
**Fig.4A**



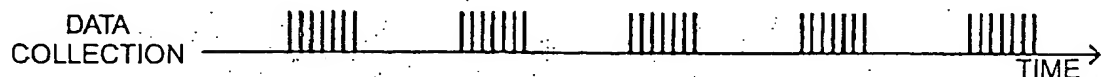
**Fig.4B**



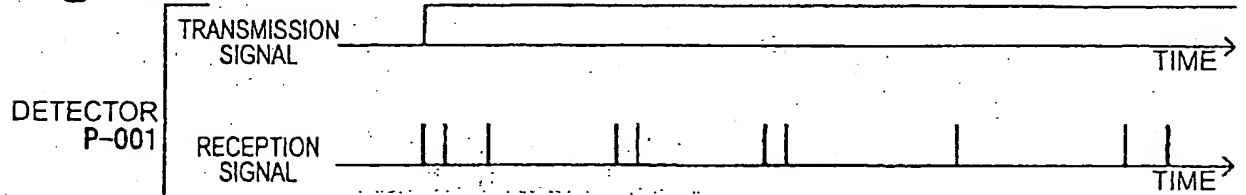
**Fig.4C**



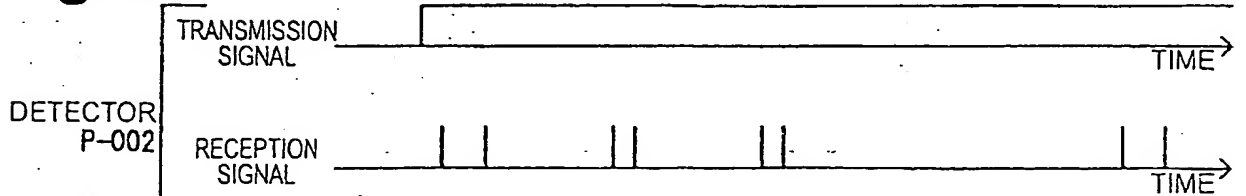
**Fig.4D**



**Fig.4E**



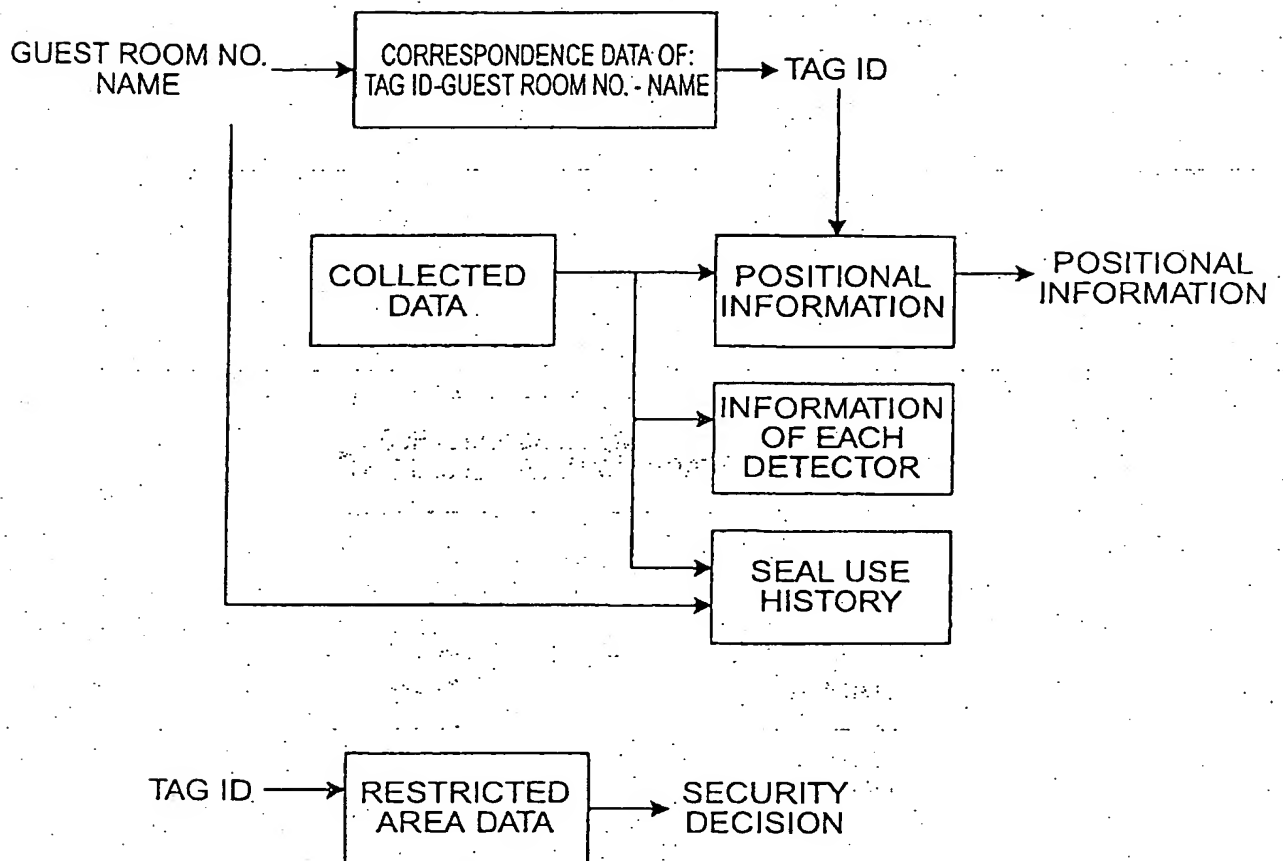
**Fig.4F**



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**Fig.5**



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**Fig.6**

## POSITIONAL INFORMATION (DATA COLLECTION)

| DATE               | TIME  | TAG ID    | LOCATION |
|--------------------|-------|-----------|----------|
| ** MONTH<br>/* DAY | :     | :         | :        |
|                    | 10:00 | T-***9012 | P-1002   |
|                    | 10:00 | T-***9023 | P-1003   |
|                    | 10:00 | T-***1001 | P-2002   |
|                    | 10:00 | T-***1002 | P-2002   |
|                    | 10:00 | T-***3214 | P-3098   |
|                    | 10:01 | T-***2003 | P-1002   |
|                    | 10:01 | T-***2221 | P-1002   |
|                    | 10:01 | T-***5236 | P-1002   |
|                    | 10:01 | T-***9012 | P-1002   |
|                    | 10:01 | T-***9041 | P-4023   |
|                    | :     | :         | :        |
|                    | 19:35 | T-***9036 | P-1002   |
|                    | 19:35 | T-***9044 | P-1002   |
|                    | 19:35 | T-***1001 | P-3012   |
|                    | 19:35 | T-***1002 | P-3012   |
|                    | 19:35 | T-***6523 | P-1003   |
|                    | 19:36 | T-***2003 | P-5012   |
|                    | 19:36 | T-***6002 | P-1002   |
|                    | 19:36 | T-***7003 | P-1002   |
|                    | :     | :         | :        |

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**Fig.7**

CORRESPONDENCE RELATIONSHIP OF:  
 TAG ID-GUEST ROOM NO.-NAME

| GUEST ROOM NO. | TAG ID         | NAME OF USER |
|----------------|----------------|--------------|
| R-101          | T-***1001<br>~ | OO **        |
|                | T-***1010      |              |
|                | T-***1011<br>~ | OO *Δ        |
|                | T-***1020      |              |
| R-102          | -              | -            |
| R-103          | T-***1051<br>~ | ** O         |
|                | T-***1060      |              |
| R-104          | T-***2001<br>~ | Δ **         |
|                | T-***2010      |              |
|                | T-***2011<br>~ | O× ΔΔ        |
|                | T-***2020      |              |
| R-105          | C-7777         | OO OO        |
| :              | :              | :            |



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**Fig.8**

POSITIONAL (MOVEMENT) INFORMATION (BASED ON TAG ID)

| TAG ID    | DATE                 | TIME  | LOCATION | NOT-PERMITTED FLAG |
|-----------|----------------------|-------|----------|--------------------|
| T-***1001 | ** MONTH<br>/ ** DAY | 10:00 | P-2002   | 0                  |
|           |                      | :     | :        | :                  |
|           |                      | 19:35 | P-3012   | 0                  |
|           |                      | :     | :        | :                  |
| T-***1002 | ** MONTH<br>/ ** DAY | 10:00 | P-2002   | 0                  |
|           |                      | :     | :        | :                  |
|           |                      | 19:35 | P-3012   | 0                  |
|           |                      | :     | :        | :                  |
| T-***2003 | ** MONTH<br>/ ** DAY | 10:01 | P-1002   | 0                  |
|           |                      | :     | :        | :                  |
|           |                      | 19:36 | P-5012   | 1                  |
|           |                      | :     | :        | :                  |

**Fig.9**

POSITIONAL (MOVEMENT) INFORMATION (BASED ON LOCATION)

| LOCATION | DATE                 | TIME  | TAG ID    |
|----------|----------------------|-------|-----------|
| P-1001   | ** MONTH<br>/ ** DAY | :     | :         |
|          |                      | 10:00 | T-***9003 |
|          |                      | 10:00 | T-***9014 |
|          |                      | 10:00 | T-***9005 |
|          |                      | 10:01 | T-***9003 |
|          |                      | 10:01 | T-***9005 |
|          |                      | 10:02 | T-***9003 |
|          |                      | 10:02 | T-***9005 |
| P-1002   | ** MONTH<br>/ ** DAY | :     | :         |
|          |                      | 10:00 | T-***9102 |
|          |                      | 10:00 | T-***9203 |
|          |                      | 10:00 | T-***9036 |
|          |                      | 10:01 | T-***9102 |
|          |                      | 10:01 | T-***9111 |
|          |                      | 10:02 | T-***9111 |
|          |                      | 10:02 | T-***9036 |

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**Fig.10**

## TAG USE HISTORY

| TAG ID    | GUEST ROOM NO. | USE HISTORY   |
|-----------|----------------|---|
| T-***1001 | R-101          | **YEAR/**MONTH/**DAY/**HOUR:**MINUTE-**YEAR/**DAY/**HOUR:**MINUTE |
| T-***1002 | R-101          | **YEAR/**MONTH/**DAY/**HOUR:**MINUTE-**YEAR/**DAY/**HOUR:**MINUTE |
| T-***1003 | R-101          | **YEAR/**MONTH/**DAY/**HOUR:**MINUTE-**YEAR/**DAY/**HOUR:**MINUTE |
| T-***1234 | R-103          | **YEAR/**MONTH/**DAY/**HOUR:**MINUTE-**YEAR/**DAY/**HOUR:**MINUTE |
| :         | :              |   |

**Fig.11**CORRESPONDENCE DATA OF:  
TAG ID - RESTRICTED AREA

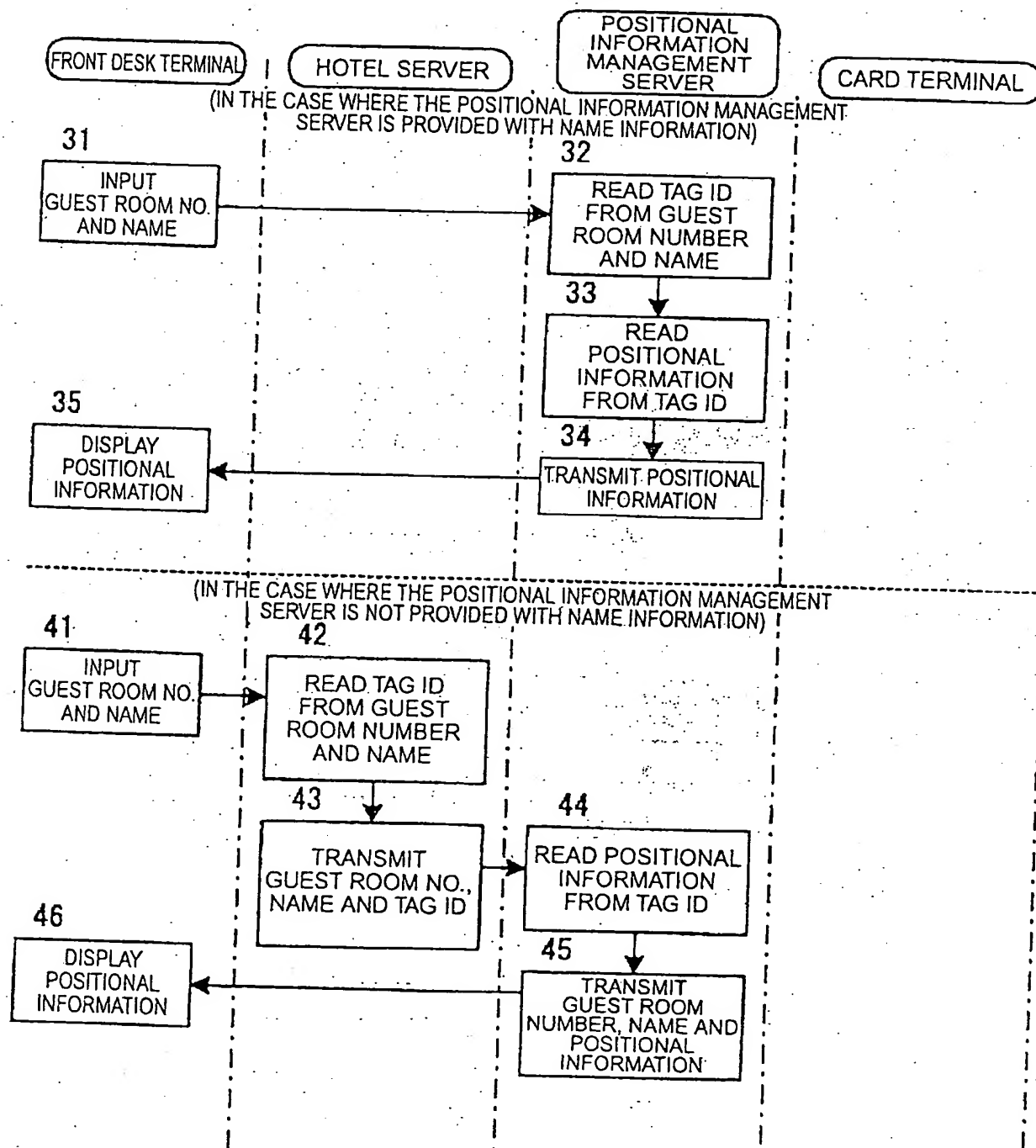
| TAG ID   | RESTRICTED AREA |
|----------|-----------------|
| T-***001 | P4001           |
| ~        | ~               |
| T-***999 | P4999           |
| T-A**001 |                 |
| ~        | -               |
| T-A**999 |                 |
| :        | :               |

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**Fig. 12**

## SEARCH FOR POSITIONAL INFORMATION



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Fig. 13

## HOTEL SERVER

| USER INFORMATION    |                |                |       |           |                  |                                    |
|---------------------|----------------|----------------|-------|-----------|------------------|------------------------------------|
| DATE                | GUEST ROOM NO. | TAG ID         | NAME  | RESIDENCE | TELEPHONE NUMBER | INFORMATION PROVIDER AUTHENTICATED |
| ** MONTH<br>/** DAY | R-101          | T-***1001<br>~ | * * * | ***-****  | ***-****         | O                                  |
|                     |                | T-***1010      |       |           |                  |                                    |
|                     |                | T-***1011<br>~ | * * * | ***-****  | ***-****         | x                                  |
|                     |                | T-***1020      |       |           |                  |                                    |
|                     | R-102          | —              | —     | —         | —                | —                                  |
|                     | R-103          | T-***3251<br>~ | * * * | ***-****  | ***-****         | O                                  |
|                     |                | T-***3260      |       |           |                  |                                    |
|                     | R-104          | T-***3441<br>~ | * * * | ***-****  | ***-****         | O                                  |
|                     |                | T-***3450      |       |           |                  |                                    |
|                     |                | T-***3451<br>~ | * * * | ***-****  | ***-****         | O                                  |
|                     |                | T-***3460      |       |           |                  |                                    |
|                     | :              | :              | :     | :         | :                | ..                                 |

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## SEARCH FOR POSITIONAL INFORMATION

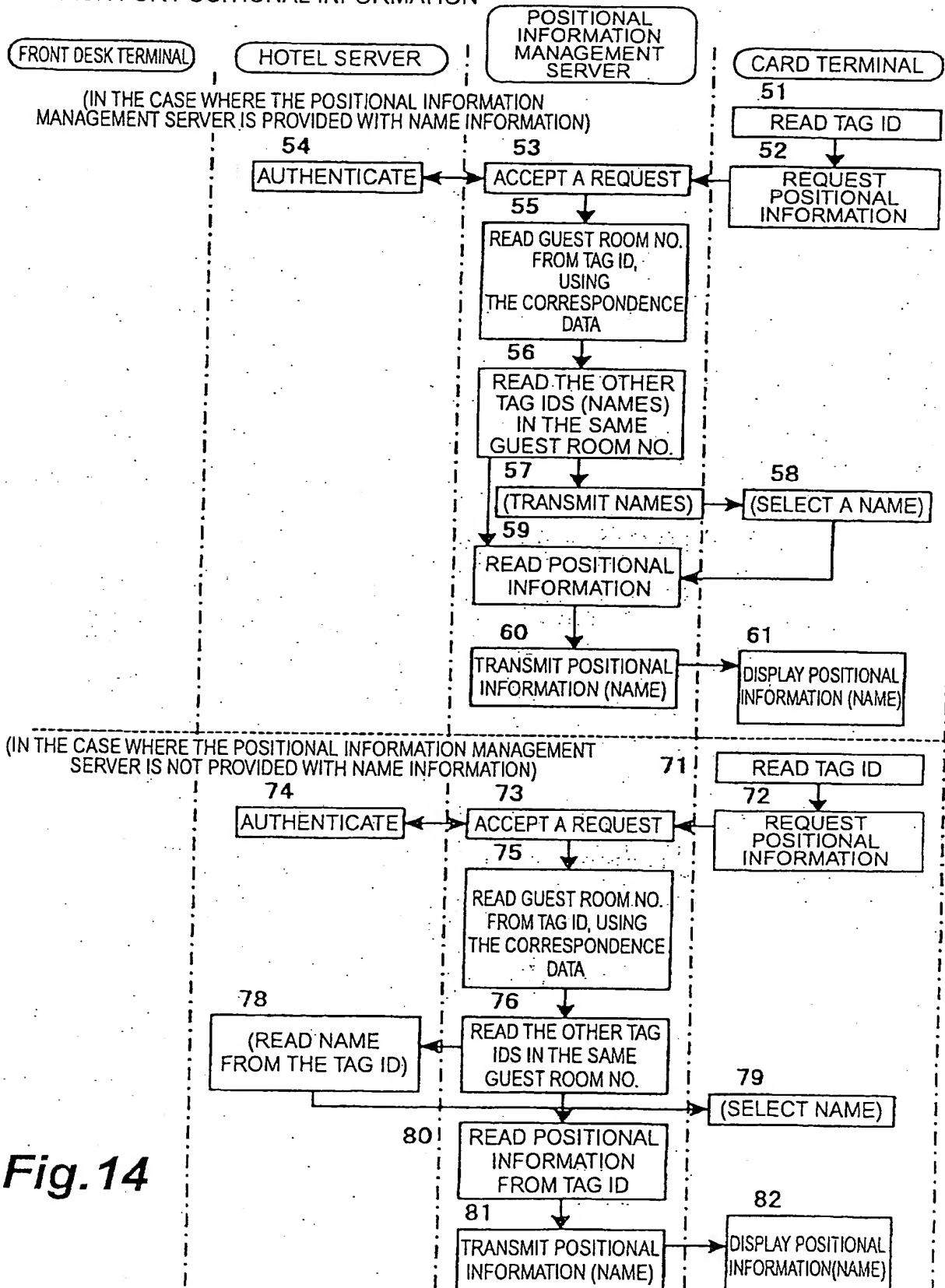
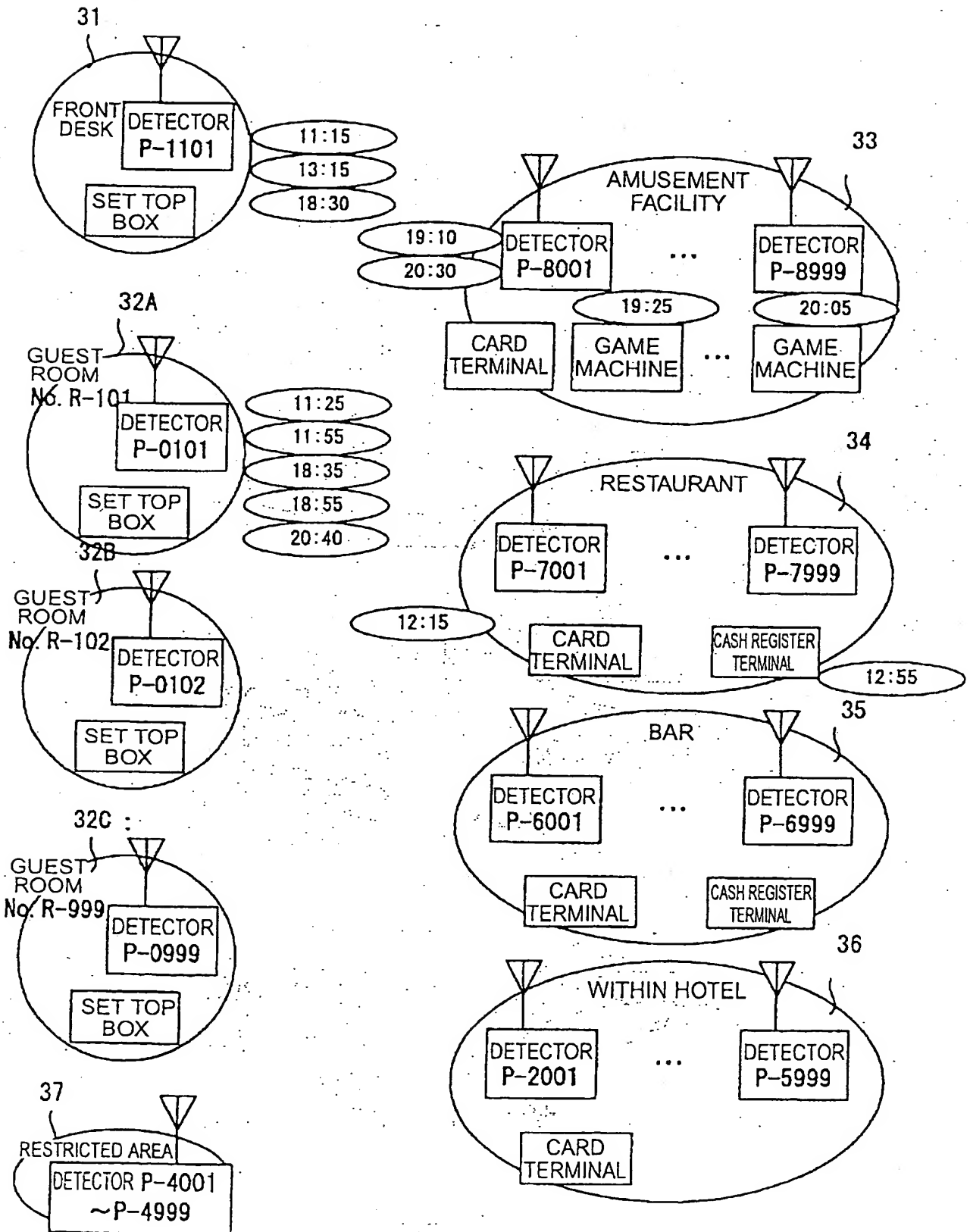


Fig.14

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**Fig.15**

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**Fig.16**

TERMINATION PROCESSING

